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**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**

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PS

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/658,712	09/11/00	HEILER	P A-2528

MMC2/0314

LERNER AND GREENBERG, P.A.
P.O. BOX 2480
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EXAMINER
CRENSHAW, M

ART UNIT	PAPER NUMBER
2854	

DATE MAILED: 03/14/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No.	Applicant(s)
	09/658,712	HEILER ET AL.
	Examiner	Art Unit
	Marvin P. Crenshaw	2854

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 06 March 2001.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-10 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) Notice of References Cited (PTO-892)
 16) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.

- 18) Interview Summary (PTO-413) Paper No(s) _____.
 19) Notice of Informal Patent Application (PTO-152)
 20) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3 and 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Czotscher.

Czotscher teaches a rotatable body having a circumferential surface formed of a nonmetallic material in which a group of rollers consist of a slip roller and a vibrator roller. He teaches a vibrator roller (fig. 1a, 11), a roller (shown but not noted in Fig. 1a) that functions, operates and is positioned as a slip roller and is thus obviously a slip roller, a roller for carrying ink (fig. 1a, 12), said roller is in permanent engagement with two other rollers (fig. 1a) and is made of nonmetallic material (Col. 9, line 8-11).

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Czotscher as applied to claims 1-3 and 5-10 above in further view of Johne et al.

Czotscher doesn't teach a rotatable body that has a circumferential surface running helically. Johne et al. teaches a rotatable body that has a circumferential surface running helically (col. 3, lines 38-40). To have a rotatable body that has a circumferential surface running helically is obvious in the view of the teachings of Johne et al. It would have been obvious to modify Czotscher to have a rotatable body that has

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a circumferential surface running helically as taught by Johne et al. as to provide an equal flow on liquid.

Claim Objections

Claim 8 is objected to because of the following informalities: That the average roughness of the surface, determined by the slats, is at least 12 microns is relative to what. The relativity is referring to the gap, height, width or length. Also, that the structure is obvious in the experimentation of the rotatable body of the slats for the process flow of liquid . Appropriate correction is required.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marvin P. Crenshaw whose telephone number is (703)308-0797. The examiner can normally be reached on M-Th and every other Friday 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Hilten can be reached on (703)308-0719. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-7722 for regular communications and (703)308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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MPC
March 12, 2001



JOHN S. HILTEN
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